

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 09531-005002	Application No. 09/803,810
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Gary L. Nelsestuen	
		Filing Date March 12, 2001	Group Art Unit 1653
(37 CFR §1.98(b))			

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U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
HS	AA	5,093,317	03/03/92	Lewis	514	12	
HS	AB	5,288,629	02/22/94	Berkner	435	240.2	
HS	AC	5,504,064	04/02/96	Morrissey et al.	514	8	
HS	AD	5,516,640	05/14/96	Watanabe	435	7.4	
HS	AE	5,580,560	12/03/96	Nicolaisen et al.	424	94.64	
HS	AF	5,788,965	08/04/98	Berkner et al.	424	94.64	
HS	AG	5,817,788	10/06/98	Berkner et al.	536	23.2	
HS	AH	5,824,639	10/20/98	Berkner	514	12	
HS	AI	5,833,982	11/10/98	Berkner et al.	424	94.64	
HS	AJ	5,861,374	01/19/99	Berkner et al.	514	8	
HS	AK	6,017,882	01/25/00	Nelsestuen	514	12	

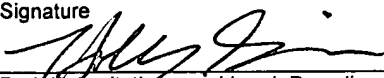
Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
HS	AL	0 296 413	12/28/88	EPO	-	-		
HS	AM	0 354 504	02/14/90	EPO	-	-		

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
HS	AN	Evans et al., "How Important are proline 22 and the 41-45 Helical stack to Membrane Binding by Bovine Prothrombin?", <i>Protein Sci.</i> , 1996, 5:Suppl. 1, 163, Abstract, #606-S
HS	AO	Broze Jr. et al., "Monoclonal Anti-human Factor VII Antibodies," <i>J. Clin. Invest.</i> , 1985, 76:937-946
HS	AP	Christiansen et al., "Hydrophobic Amino Acid Residues of Human Anticoagulation Protein C That Contribute to Its Functional Binding to Phospholipid Vesicles," <i>Biochem.</i> , 1995, 34:10376-10382
HS	AQ	Zhang et al., "Role of Individual y-Carboxyglutamic Acid Residues of Activated Human Protein C in Defining its In Vitro Anticoagulant Activity," <i>Blood</i> , 1992, 80(4):942-952
HS	AR	Ratcliffe et al., "The Importance of Specific y-Carboxyglutamic Acid Residues in Prothrombin," <i>J. Biol. Chem.</i> , 1993, 268(32):24339-24345
HS	AS	Persson et al., "Site-directed mutagenesis but not y-carboxylation of glu-35 in factor VIIa affects the association with tissue factor," <i>FEBS Letters</i> , 1996, 385(3):241-243
HS	AT	Shah et al., "Manipulation of the membrane binding site of vitamin K-dependent proteins: Enhanced biological function of human factor VII," <i>Proc. Natl. Acad. Sci. USA</i> , 1998, 95(8):4229-4234

Examiner Signature



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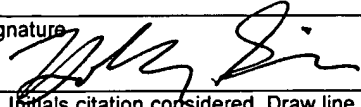
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KS	AU	Zhang et al., "The Contributions of Individual γ -Carboxyglutamic Acid Residues in the Calcium-dependent Binding of Recombinant Human Protein C to Acidic Phospholipid Vesicles," <u>J. Biol. Chem.</u> , 1993, 268(16):12040-12045
KS	AV	Dahlback, "Inherited Thrombophilia: Resistance to Activated Protein C as a Pathogenic Factor of Venous Thromboembolism," <u>Blood</u> , 85(3):607-614
KS	AW	Bauer, "Treatment of Factor VII Deficiency with Recombinant Factor VIIa," <u>Haemostasis</u> , 1996, 26(Suppl. 1):155-158
KS	AX	Amljots et al., "Prevention of experimental arterial thrombosis by topical administration of active site-inactivated factor VIIa," <u>J. Vasc. Surg.</u> , 1997, 25(2):341-346
KS	AY	Fiore et al., "The Biochemical Basis for the Apparent Defect of Soluble Mutant Tissue Factor in Enhancing the Proteolytic Activities of Factor VIIa," <u>J. Biol. Chem.</u> , 1994, 269(1):143-149
KS	AZ	Furie et al., "The Molecular Basis of Blood Coagulation," <u>Cell</u> , 1988, 53:505-518
KS	AAA	Hedner et al., "Recombinant Activated Factor VII in the Treatment of Bleeding Episodes in Patients with Inherited and Acquired Bleeding Disorders," <u>Transfus. Med. Rev.</u> , 1993, 7(2):78-83
KS	ABB	Hope et al., "Production of large unilamellar vesicles by a rapid extrusion procedure. Characterization of size distribution, trapped volume and ability to maintain a membrane potential," <u>Biochem. Biophys. Acta.</u> , 1985, 812:55-65
KS	ACC	Huang, "Studies on Phosphatidylcholine Vesicles. Formation and Physical Characteristics," <u>Biochem.</u> , 1969, 8(1):344-352
KS	ADD	Lu et al., "The Prothrombinase Reaction: "Mechanism Switching" between Michaelis-Menten and Non-Michaelis-Menten Behaviors," <u>Biochem.</u> , 1996, 35(25):8201-8209
KS	AEE	Matsubara et al., "A Receptor Tyrosine Kinase, Sky, and Its Ligand Gas 6 are Expressed in Gonads and Support Primordial Germ Cell Growth or Survival in Culture," <u>Dev. Biol.</u> , 1996, 180:499-510
KS	AFF	McDonald et al., "Comparison of Naturally Occurring Vitamin K-Dependent Proteins: Correlation of Amino Acid Sequences and Membrane Binding Properties Suggests a Membrane Contact Site," <u>Biochem.</u> , 1997, 36:5120-5127
KS	AGG	McDonald et al., "Ionic Properties of Membrane Association by Vitamin K-Dependent Proteins: The Case of Univalency," <u>Biochem.</u> , 1997, 36(50):15589-15598
KS	AHH	Nakagaki et al., "Initiation of the Extrinsic Pathway of Blood Coagulation: Evidence for the Tissue Factor Dependent Autoactivation of Human Coagulation factor VII," <u>Biochem.</u> , 1991, 30(45):10819-10824
KS	AII	Nelsestuen et al., "Equilibria Involved in Prothrombin-and Blood-Clotting Factor X-Membrane Binding," <u>Biochem.</u> , 1977, 16(19):4164-4171
KS	AJJ	Nicolaes et al., "A Prothrombinase-based Assay for Detection of Resistance to Activated Protein C," <u>Thromb. Haemost.</u> , 1996, 76(3):404-410
KS	AKK	Nicolaisen et al., "Immunological Aspects of Recombinant Factor VIIa (rFVIIa) in Clinical Use," <u>Thromb. Haemost.</u> , 1996, 76(2):200-204
KS	ALL	Petersen et al., "Quenching of the Amidolytic Activity of One-Chain Tissue-Type Plasminogen Activator by Mutation of Lysine-416," <u>Biochem.</u> , 1990, 29(14):3451-3457
KS	AMM	Rezaie et al., "The Function of Calcium in Protein C Activation by Thrombin and the Thrombin-thrombomodulin Complex Can Be Distinguished by Mutational Analysis of Protein C Derivatives," <u>J. Biol. Chem.</u> , 1992, 267(36):26104-26109

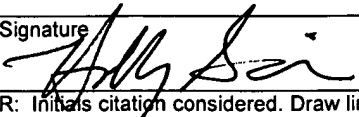
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HS	ANN	Schulman et al., "Feasibility of Using Recombinant Factor VIIa in Continuous Infusion," <u>Thromb. Haemost.</u> , 1996, 75(3):432-436
HS	AOO	Shen et al., "Enhancing the Activity of Protein C by Mutagenesis to Improve the Membrane-Binding Site: Studies Related to Proline-10," <u>Biochem.</u> , 1997, 36(51):16025-16031
HS	APP	Sorensen et al., "Incorporation of an Active Site Inhibitor in Factor VIIa Alters the Affinity for Tissue Factor," <u>J. Biol. Chem.</u> , 1997, 272(18):11863-11868
HS	AQQ	Thomsen et al., "Pharmacokinetics of Recombinant Factor VIIa in the Rat - A Comparison of Bio-, Immuno- and Isotope Assays," <u>Thromb. Haemost.</u> , 1993, 70(3):458-464
HS	ARR	Vallette et al., "Construction of mutant and chimeric genes using the polymerase chain reaction," <u>Nucleic Acids Res.</u> , 1989, 17(2):723-733
HS	ASS	Welsch et al., "Amino-Terminal Alanine Functions in a Calcium-Specific Process Essential for Membrane Binding by Prothrombin Fragment 1," <u>Biochem.</u> , 1988, 27(13):4939-4945
HS	ATT	Freedman et al., "Identification of the Phospholipid Binding Site in the Vitamin K-dependent Blood Coagulation Protein Factor IX," <u>J. Biol. Chem.</u> , 1996, 271(27):16227-16236
HS	AUU	Smirnov et al., "A Chimeric Protein C Containing the Prothrombin Gla Domain Exhibits Increased Anticoagulant Activity and Altered Phospholipid Specificity," <u>J. Biol. Chem.</u> , 1998, 273(15):9031-9040
HS	AVV	Perera et al., "Trans-Cis Isomerization of Proline 22 in Bovine Prothrombin Fragment 1: A Surprising Result of Structural Characterization," <u>Biochem.</u> , 1998, 37(31):10920-10927

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